

Serial No.: 10/018,786


REMARKS

The paper copy of the Sequence Listing for the subject application, is by this amendment, added after the last page of the application to replace the Sequence Listing identified on pages 1-3 at the back of the application.

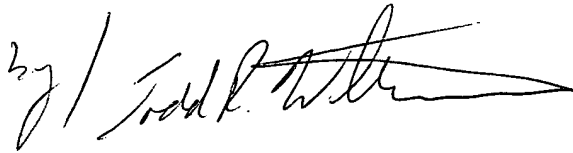
Favorable consideration on the merits is respectfully requested.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

By   
Teresa Stanek Rea  
Registration No. 30,427

P.O. Box 1404  
Alexandria, Virginia 22313-1404  
(703) 836-6620



Date: June 26, 2002

## SEQUENCE LISTING

<110> Pierrard, Jerome  
 Simon, Jean-Luc  
 Chevallereau, Paule

<120> Avirulent Xanthomonas-Campestris Strains Producing Xanthan

<130> 022701-966

<140> US 10/018,786

<141> 2001-12-21

<150> PCT/FR00/01725

<151> 2000-06-21

<150> FR 99/07963

<151> 1999-06-22

<160> 7

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> primer

<400> 1

aaattcgtca agggatgatgc

20

<210> 2

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> primer

<400> 2

gttccacctg gtcgacaagc

20

<210> 3

<211> 1189

<212> DNA

<213> Xanthomonas campestris

<400> 3

aaattcgtca agggatgatgc gatcgccggc ctggtgatca ccatgggtcaa catcttggcc 60  
 ggcatcgtgg taggcgtgac ctaccacggc atgagcgcg gcgaggccgc caaccgcttt 120  
 gcgatcctgt cggtaggcga tgcgatggtg tcgcagatcg cctcgctgct gatctcggtg 180  
 gcggccggcg tcatgatcac ccgcgtcgcc aacgagaatg aaaccaagat cagctcgctc 240  
 gggctcgaca tcggccgcca gctcaccagc aacgcacgtg ccttgatggc agcgagtgtg 300

```

ctgctggcct gctttgcgtt cgtgccggga tttccggcgc tgctgttctt gctgctggca 360
gcggcggtcg gtgccggggg ctatacgatc tggcgcaagc aacgcgacac cagcgggagc 420
gatcagcccg cactgccatc aaccagccgc aaaggtgcca aaggcgatgc gccgcacatc 480
cgcaagagcg ccccggtatt cgcttcgccc ttgtcgatgc ggctttcgcc gcaactggct 540
gcacggctcg acccggcgct gctggatcag gcgatcgaaa gcgagcggag gcaattggct 600
gagctgctgg gattgccgtt cccggggatc gcgatatggc agagcgaatc cctgcagggc 660
ctgcagtacg aagtgttgat ccacgatgtg ccggaaaccc gcagcgcgtt gacgcatacg 720
gcggacatgc agaaagcgct ggcccaacaa gccatcgcac cgttgcgatc acgcgcgcac 780
ctgttcgctg gcattccagga gacgcagtgg atgctggaac aggtgggcgc ggactatccc 840
gggctggttg cagaggtcaa caaggccatg ccagcccaac gcacgcgcga tgtgttgccg 900
cgactgctgg aagaacgcat cccggtgcgc aacatcaaga gcacccctga gacccctggg 960
gtgtggggac cgaaggaaaa ggatctgctg atgctgaccg agtatgtgcg ctgcgatctc 1020
ggcgcgtatc ttgcgcacac cgcgaccgca ggacccggac agctgcctgc ggtgatgctc 1080
gaccacgcgc tggaacagtt gatccggcag tcgattcgcg ccacaccggc cggcaatttc 1140
ctggcgctgc caccggagca ggccaatcag cttgtcgacc aggtggaaa 1189

```

<210> 4  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> primer

<400> 4  
 gatccaacag ctggacaacc 20

<210> 5  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> primer

<400> 5  
 aacggaatct tcgacaggcc 20

<210> 6  
 <211> 1818  
 <212> DNA  
 <213> *Xanthomonas campestris*

```

<400> 6
atggcatacg cctgtcctcc agttcaccgc catcgacgcg cgcggttggc cgctgccttg 60
ttgcttggct tgctgccgct gctgccggcg catgccaacg ccgcgtcggt gccgtggcac 120
tcgcgcagct tcaaatacgt tgccgaccgc aaggatctca aggaggtgct gcgcgacctg 180
tccgccagcc aatccatcac cacctggatt tcaccggagg tgaccggcac gctcagtggc 240
aaattcgaag ccactccgca gaagtttctc gacgatctat cgggcacggt cggttttgtc 300
tggtattacg atggctcggg gtcagaatc tggggcgcgga acgagaccaa gaatgcgacc 360
ttgagtttgg gcgctgcacg gacgagtgcg ctgcgcgatg cgcttgcgcg catgcggctg 420
gacgatccgc gctttccggg ccgttatgac gagacagcgc acctggcggt ggtgtcgggc 480
ccgcggggtt atgtggatac cgtcgcggcg atcgccaagc aggtcgagca ggtcgcgcgc 540
caacgcgacg ccaccgaagt gcaggtgttt cagctgcatt atgcgcaggc ggccgaccac 600
accacccgca tcggtgggtc agacatccag gtgccgggca tggccagcct gttgcgcaac 660
atatacggcg tgcgtggcgc gccactgcg gcgctgcccg ggccaggcgc gaatttcggg 720
cgtgtgcaac cgatcggcgg tggctcgtcc aataccttcg gcaacagcgg tcagcgccag 780

```

```

agtggcgggca gcggcattct cggtttgcc tgcgtcgtggt tcggcgctgg gtcgccgtcc 840
gagcgggtgc cggtcagtcc gccgttgccg ggcagtggca atagcgccaa tgcgccggcc 900
agcgtgtggc cggagatgag ccaggccaga cgcgatgcgc cgctggcggt ggacgccggc 960
agcggcggtg agctggcatc cgacgcgccg gtgatcgaag ccgaccgcgc caccaacggc 1020
attctcattc gcgaccgccc cgagcggatg gccgcctatg gcacgttgat ccagcagctc 1080
gacaaccgtc ccaagctgct gcagatcgat gccaccatca tcgagatccg cgacggcgcc 1140
ctgcaggatc tcggcggtga ctggcggttc cacagccggc gtgtggatgt gcagaccggc 1200
gacgggctgt gtggccagct tggctacgat ggcagcttga gcggtgcagc agccgccggg 1260
gcagccgcgc cgttgggagg gacgttgacc gctgtcctgg gcgatgcagg gcgttacctg 1320
atgacgcgcg tctcggcgct cgagcagacc aacaaggcca agatcgtctc caccgccgag 1380
gtggcgacgc tggacaacgt ggaagcgggt atggaccaca agcaacaggc attcgtgcgt 1440
gtcagcggtt atgcatccgc cgacctctac aacctgtccg cgggtgtatc gctacgcgta 1500
ttgccaagtg tgggtgccgg gtccgcaaat ggtcagatgc gcctggatgt gcgtatcgaa 1560
gacgggcagt tgggcgccaa taccgtcgat ggcattcccc tcatcacctc cagcgagatc 1620
accacgcagg ccttcgtcaa cgagggccag agcctgctga tcgccggtta tgcttcgcac 1680
accgatcaga cagatctgaa caacgtcccc gggctgtcca ggattccatt ggtcggcaac 1740
ctgttcaagc atcgccagca gagcgggtcg cggttgcagc ggttgttcct gctgaccccc 1800
catatcgtct cgccctga                                     1818

```

<210> 7

<211> 702

<212> DNA

<213> *Xanthomonas campestris*

<400> 7

```

atgcgtcttt ggctgaggtc cacaccggaa gcggtcggcc ttgactgcga ggtcatccca 60
cgcgaggcat tggcctgtgt gctggaactg gacgcagcgg gtgcacaggt gcacgcgcgt 120
tgcgcgcagg cgctggcgga cgcccagacg cgtgcgcagg cgctgctcga cgctgccccaa 180
cggcaggccg aggccatcct tcaggatgcc cagcagaggg ccgagcgcag tgcacgcctg 240
ggctatgccg ccgggctgcg ccgtcagctc gacgcgtgga acgagcgcgg cgtgcggcat 300
gccttcgcgg ccagggacgc cgcacggcgc gccgcgcgag gcctggccga gatcgtcgcg 360
cacgcctgcg agcaggttct gcacgggcac gatcctgcgg cgctgtacgc gcgcgcgcga 420
caggcgctgg acggcgccct ggacgaggcg aacgccctgc aggtgagcgt gcatcccgat 480
gcgctggacg atgcacggcg cgccttcgat gcggccgcag cggccggcgg atggagcatg 540
ccggtggaac tgtgcggtga tacgactctg gccttggggtg cctgcgtgtg cgaatgggat 600
accggcgtgt tcgagaccga tctgcgtgat cagctgcgca gtctccggcg cgtcattcgc 660
cgcgtgttgg ccacgccgca ggcggtgccg gatgcttget ga                                     702

```